Established 1848.

ST LOUIS, MO. WEDNESDAY, SEPTEMBER 24, 1902.

Volume LV., No. 39

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Det. ela-ace. the ting



The Missouri State Dairy Association meets this year Nov. 11, 12 and 13, at Columbia, the home of the Agricultural College and the Missouri Experiment Station. A new \$40,000 dairy building has just been completed on the college grounds, and in this building the sessions of the dairy meeting will be held. One young dairyman, who attended at Palof the dairy meeting win be field. One young dairyman, who attended at Palmyra last year his first dairy meeting, said: "I would not have missed the inspiration I got at that convention for twice what it cost me to attend. I got my money's worth in the pleasure of the trip and many new thoughts and ideas on dairy methods besides." These an-nual meetings constitute a short course in dairying which concentrates in three days enough material to keep a man thinking for a whole year. Prof. C. H. Eckles is the acting secretary and will answer any inquiries relating to the

HOW TO BUY A DAIRY COW.

The best dairymen seldom buy cows, but rather raise the offspring of their best milkers to be their successors, writes C. M. Root in "Twentleth Century Farmer." It is hardly safe to buy a cow that a dairyman wishes to sell, for he usually wishes to part with her for a reason. If you have had experience in buying you perhaps know more about it than we do. but as dalrying was our occupation for many years, in herds of from five to fifty cows on the place, we found that a cow with a thick neck, large horns, or rather with horns thick at the base, and coarse, black hair was a light milker, and as we have always fed generously a cow of this have always fed generously a cow of this type, soon got her ready for the butcher and the butcher got her, and her empty stall was filled with another kind of a cow. The other cow had a finer organization, her muzzle was fine, her eyes were large and clear, her neck long and thin. All her legs were well spread, her pelvis was wide, her back inclined to be sharp. her lungs large, heart on the same scale, plenty of rib and flank room, with good depth to contain a large set of stomachs

surface.

The shape and set of the teats is an important consideration in buying a cow. The teats should be placed well apart, so that there will be plenty of room for the hands of the milker. This feature indicates great milking capacity. All great milking cows have a wide spread of teats. The shape of the teat adds to or subtracts from the value of a cow. An ideal shaped teat is long and rather slim. Every one who has milked cows knows

General Debility

work a large quantity of food into

have attempted to overcome this difficul-ty by passing laws and ordinances mak-ing it unlawful to adulterate, and in General Debility
Day in and out there is that feeling of weakness that makes a burden of itself.
Food does not strengthen.
Sleep does not refresh.
It is hard to do, hard to bear, what should be easy, —vitality is Cui the ebb, and the whole system suffers.
For this condition take

Hood's Sarsaparilla
It vitalizes the blood, gives vigor and tone to all the organs and functions, and is positively unequalled for all run-down or debilitated conditions.

Hood's Fills cure constipation, 25 cents.

to work a large quantity of food into milk. A long, alim tail with a heavy brush goes with a good cow.

A man in buying a cow may be greatly deceived by a large udder. A cow may have a large udder and yet give little milk. The solids of milk being the only have a large udder and yet give little milk. The solids of milk being the only parts with any food value, the bulletins milk a cow with a deep, narrow udder ending in large teats, is seldom a good milker. Such an udder has coarse hair and abundance of it. It is but little reduced in size by the milking process. A heavy milker must have a large udder, but it is rather broad than long, and to carry it well without bruising or chafing the hind feet should be well apart. Such an udder should have short hair, and when milked should be selvant in such an udder should hang loosely over its surface.

The shape and set of the teats is an immediate and solid with the solids of the milking in the composition of milk that milk is milk, and then dies; and a still more miserable life til lives on into the winter. It is loss of the milk in solids as to be the milk which is the minimum standard for fat, is worth 5 cents a quart some of it is so deficient in solids as to be the milk in solid as to be the milk in the solid as to be the milk in solid as to be the milk is solid as to be the milk in solid as to be the

in the old country. This, as our readers know, has been prevalent in all the dairy districts of this country and of every country in the world. It comes in with es and dairy cows. It is never neard of on the ranges, seldom heard

SHARPLES SEPARATOR, with Tubular bowl, is guaranteed to ield the farmer a 6% greater profit in his investment than any other eparator will yield. at gets more and better cream.
It makes more and better butter.
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The Dalry

BORNO SENTER PEMATERIA

BORNO S

The Leaning corr. a yellow did to water with the conse segin.

In the sequence of the corresponding to the conse segin.

In the sequence of the corresponding to the segindary agree.

In ferent varieties uniformly agree.

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THE HAID SEPARATOR.

The number f hand separators on farms is increasing both in this country and in Europe, ays "Farmers' Review." There is a constant conflict of opinion between those in favor of the hand separate and the latest of the confidence chole to the cutral creamery. Each control has an advantage. With men owning but few ows the hand separato will never be poular, as it represents a considerable irestment and requires skilled care. Them that has a goodly number of cowsfids the separator a good number of cowshis the separator a good investment. So is may expect to see the two systems exis side by side. The hand separator is cerainly preferable from a sanitary standjint, except where the large creamery terilizes all skim milk. In some parts f Minnesota the patrons of creameries as forming organizations. The movement seems to be spreading with a good des of rapidity. There is no doubt that mucigood can be accomplished by such organizations whether they be composed of palons of individual creameries or of co-derative creameries. Men unorganized artunable to properly protect their interess. As society advances it must becomimore completely organized in all its pris. Some organizations will be formed at will have but a tem-

make her get up more quickly, but it will as those having constant access to water not induce her to give any more milk. If rock sait is kept in the yard where the cows can lick it every day, there is no agree that they will get too much at once.

There is no excuse for an animal carrying a pair of horns upon the farm.

Many a cow goes into winter in poor condition because she has been pestered by the horn fity, which destroy the horn growth. If the horns were not there this would not occur. Who will maintain that the growing of horns is not crue!?

A cow may have a large udder and give a good quality of milk for a short time, but if she has not the methicant of the more bedding was required to keep the cows clean and comfortable in the pass than in the stalls, showing that it is not economical to keep milk cows loose in pens than in the stalls, while the increase of the amount of bedding would also tend to produce a greater bulk of manure. The accumulation of such a great bulk of manure makes the milch cows less clean, resulting in a greater amount of bacteria in the milk of cows less clean, in the stalls, while the increase of the amount of bacteria in the milk of cows less clean, in the pass those of the more bedding was required to keep the cows clean and comfortable in the push that it is not economical to keep the cows clean and comfortable in the push that it is not economical to keep the cows clean and comfortable in the push that it is not economical to keep the cows clean and comfortable in the push that it is not economical to keep the cows clean and comfortable in the push that it is not economical to keep the keep the cows clean and comfortable in the push that it is not economical to keep the cows clean and comfortable in the push the suph that it is not economical to keep the cows clean and comfortable in the push the push that it is not economical to keep the cows clean and comfortable in the push that it is not economical to keep the cows clean and comfortable in the push that it is not economi

and as different parts of the fields were furnished with varying quantities of humus the growth of the plants soon exhibited a patchy appearance. Where the humus was plentiful the grains were thicker, heavier and much darker in green, showing sturdy vigor, and when dry weather appeared they were scarcely affected by it. But for that matter any observing farmer has noticed the value of humus on his fields. Take as illustration the patches in the field where a pile of manure has been kept. They will for two seasons produce plants much larger and thriftier than elsewhere. Likewise under corn stacks or grain stacks the soil is enriched by the waste from the stacks, and the shade has accumulated nitrates there. When the field is planted these places will always be richer in growth than the general field, demonstrating the simple law that the more humus we can accumulate in the soil, the heavier will the yield be per are. Teking such leaves

be 22½ pounds of butter, and on ten cows begins to advance in price. The pasturer 225 pounds, which, at 20 cents a pound, are usually improving about this time

225 pounds, whic, at 20 cents a pound, would be \$45 a par. It will be seen by that that the los to the farmers, who cream their own nilk by gravity process, is enormous in he aggregate.—Prof. C. P. Goodrich.

Buff-Jersey's less t book on Farm Stock and Dairy Work is full a practical things for practical people. The Sith how to build and fill; east-lage, its value; soi crops, variety and how to grow. Swine, poully and many other wablest ably irested. Send ic for copy. Meamouth, iii.

When spring opens and weather warms up the cows will gain in milk slightly on

nis catile.

When spring opens and weather warms up the cows will gain in milk slightly on the succulent grass, and will hold up pretty well until July 1, when hot weather and flies together with short pasture seriously interfere with profitable dairying.

ween those in favor of the hand separair and those infavor of milk delivered hole to the entral creamery. Each hole to the entral creamery. short, weather hot, files hungry and the dairyman busy with his harvest.—Wisconsin Agriculturist.

COWS IN PENS OR STALLS.

has made some investigations covering three thirty-day periods to compare feed-ing in pens and stalls and to test the efhaving water constantly

The result of this experiment failed to show any advantage in having the water constantly before the cows in the stable;

Where milk is handled in consider Where milk is handled in considerable quantities it will pay to use a regular aerator, of which there are several styles on the market, though nearly all of them work on the same principle and accomplish both aeration and cooling at the same time. The milk is made to flow slowly in a thin layer over a large cool surface. Some of these aerators are made with a corrugated surface, something like a washboard, and are so arranged that a stream of cold water is forced upward through the inside to keep the surface cool.

2,367 packages of Danish butter examine in England was 14.96 per cent. This is less water than the average of American but-



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If you keep cows, write the VT. FARM MACHINE CO., Bellows Falls, Vt., for their booklet "How to Make Money."

THE U. S. SEPARATOR

Horticulture

HORTICULTURAL TALK.

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CORRECTION.-In the issue of Sept.

absolutely between the from insect or fungi. How did they do it? They sprayed. Butthat does not tell it all. Often have I heard parties say that they have sprayed, and their neighbors did not, yet had just as good fruit as they. The men who produced the fine apples were thorough; used the best pump, to which was attacked the best nossle. The mist-like spray was sent to every part of the tree, covering both sides of every leaf. This was done with the most carefully prepared mixture and repeated often. Now for the man who regards spraying as an unnecessary expenditure, which indeed it is for him the way he does it. He buys the cheapes outfit he can find, perhaps one of those little hand concerns.

of the tree is covered. When the next time for spraying comes, corn planting or cultivating will be regarded as more important, and the nasty job will be deferred until too late, or altogether. I have even seen men get out of patisnce because the nozzle choked up occasionally; the total precipitation was 41 inches. The state of the nozzle choked up occasionally; the total precipitation was 41 inches. The state of the weather was cloudy or fogg; excepting one day when it was kind of men who tell how they sprayed clear. Flurries of snow were not infrequent.

with their finger and go ahead. It is this kind of men who tell how they sprayed until the trees fairly dripped, and yet their neighbors had just as good apples. The time has come when to grow good apples we must spray, and do it thoroughly. Those who do not intend to do this should let apple growing alone. At the above mentioned meeting there was also a very fine collection of grapes from H. G. McPike of Alton. His list of varieties was very large. His new grapo. "McPike," was even more perfect than usual, and attracted much attention. Mr. James Davis of Godfrey had a valuable showing of pears, also some very fine grapes. Several others had very creditable offerings, which made the exhibit the beat that had been seen by any one present.

REDWIN H. RIEHL. North Alton, Ill., Sept. 15, 1902.

The worm described is the larval stage of a popilio butterfly. There is no danser of these ever becoming numerous mough to injure apple trees to any execut. They are readily killed by an arbenical spray.—Ed.

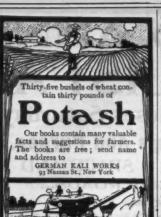
Will those who received Quaker arvel beans from us report in the colmms of COLMAN'S RURAL WORLD of their success or failure with these wonreful, productive beans?
Peoria, Ill. MRS. L. HARRISON.

Probably the first experimental gardening in Alaska, north of the Arctic Circle, was done by the International Polar Expedition to Point Barrow, Alaska, 1881-1883, which was organized for the purpose of co-operating in the work of circumpolar observation proposed by the International Polar Conference. The main object of the expedition was the prosecution of observations in terrestrial magnetism

of the expedition was the prosecution of observations in terrestrial magnetism and meteorology. Experimental gardening was an elective investigation.

The Arctic night at Point Barrow, which is of 70 days' duration, ends at noon, on Jan. 25, when the upper edge of the sun's disk appears above the southern horizon. The next day the entire disk is visible. Each succeeding day the sun's Leach succeeding of equal length, it rises directly in the ling which perhaps sprang up where seast and sets in the west. The day con-

of



tion of the soil was made, and no furthe ground. Having considerable of an orchard he may livest in a large sprayer, one that is attached to a barrel. With this he drives between two rows, and, without stopping the team, sprays two rows at once. The agent tells him that the outht, although very cheap, is just as good and in some respects superior to the high-priced ones, and having no good reason to doubt the man's word, he bites, and of course gets a nose bite himself. Then there are others who never as thorough in anything they attempt to do. Give them the best sprayer to be had and they would fail in the resuit. In the first place they would not prepare the mixture accurately. Finding the job rathmixture accurately accurately accurately accurately accurately accurately accurately accuratel

quality could not be excelled by any grown anywhere in lower latitudes, ant arctica by inference excepted.

arctica by inference excepted.

During the 19 days required for the crops to mature, the minimum temperature was 32 degrees, or below, for 9 days. The maximum temperature was 50 degrees, or above, for three days only. The mean daily temperature, from hourly observations, ranged from 30.92 degrees to 33.35 degrees, the greenal average mean for Sept. 12 Jack Frost came along and put an end to cowpeas, cucumbers and other the entire time being 33.16 degrees. The entere plants. Late corn in low lands was much injured.

Were 4 clear, 5 fair and 10 cloudy or foggy

days.

A study of the conditions under which
the plants germinated and matured is no Editor RURAL WORLD: I send you this worm. I found it on one of my apple trees. I never saw one like it before. Would like to know whether it is injurious to orchards or not. It has two horns; they come out of its lip when I would touch it. It would try to fight by throwing its head back and throwing its shead back and throwing its shear back and throwing its winder to perpendicular the plants germinated and matured is not only curiously interesting, but suggests that there was some stimulating force—perhaps the large amount of atmospheri-lead there was some stimulating force—perhaps the large amount of atmospheri-lead there was some stimulating force—perhaps the large amount of atmospheri-lead there was some stimulating force—perhaps the large amount of atmospheri-lead there was some stimulating force—perhaps the large amount of atmospheri-lead there was some stimulating force—perhaps the large amount of atmospheri-lead there was some stimulating force—perhaps the large amount of atmospheri-lead there was some stimulating force—perhaps the large amount of atmospheri-lead there was some stimulating force—perhaps the large amount of atmospheri-lead there was some stimulating force—perhaps the large amount of atmospheri-lead there was some stimulating force—perhaps the large amount of atmospheri-lead there was some stimulating force—perhaps the large amount of atmospheri-lead there was some stimulating force—perhaps the large amount of atmospheri-lead there was some stimulating force—perhaps the large amount of atmospheri-lead there was some stimulating force—perhaps the large amount of atmospheri-lead there was some stimulating force—perhaps the large amount of atmospheri-lead there

The vast tundras of northern Alask of any on the American continent. Every summer continuous beds of flowers on these level treeless areas extend north. from the Arctic Circle to the shores of the ocean. True, the flowering plants are lowly in stature, but they are not pitiful or frost-pinched as might be supposed. True, they keep close to the frosen ground, as if in love with mother earth, but they display masses of color-yellow, purple and blue-so bright as to make them visible at great distances. And in the fall of the year their ripe foliage and the golden sunshine cause the tundras to fairly glow in rich colorsed, purple and yellow-still further intensified by the varied celors of the ripening berries growing almost everywhere; ing berries growing almost everywhere all blending harmoniously with the net tral tints of the ground lichens and mos

es on which they seem to be painted Note.—The foregoing article was pared by Mr. Middleton Smith, who

horizon. The next day the entire disk visible. Each succeeding day the sun east of south, and sets a little earlier and a little more to east of south, and sets a little later a little more to the west of south, finally, when the day and night are s to lengthen and the night to short-til the middle of May, when the mid-sun appears above the northern the disposal of the fruit to which attento pronounced to be overlooked. It is hight sun appears above the northern horizon and the long Arctic day begins; the sun then remains above the horizon both day and night for 70 days, or until July 24, when it dips its lower disk at midnight and day again begin. But at no time are the sun's rays at Point Barrow vertical. The maximum altitude is 42 descends, which occurs at noon on June 22.

The snow does not begin to melt until after the sun remains continuously above the horizon and does not disappear before July, but the land close to the coast is practically free from snow by the 5th of June. The snow fall is very light, the depth on the land along the coast at no time exceeding 15 or 18 inches. The total annual precipitation—rainfall or melted snow—is only 8 inches.

A level treeless area (tundra) occupies the entire Point Barrow region. The subsoil, principally sand and gravel, perpetually frozen, is covered on the tundra senerally by a light, clayer soil, and at 5pots near the coast by a dark, leamblike soil, which thaws to a depth of from

the hank assume, and repended. In former part of the control to the large of the control to the

SWEET CIDER.

properly fined, is one of the most whole-some of drinks. It is difficult to get it. There are places where "pure apple cider" is advertised, but when you get a glass

all the world.

you drink a concection of brown sugar, the spring unless the grafts have grown tartaric acid, yeast, water and some ap-

This frade mark is stamped on every sheet of the best roofing tin made. This @ mark means "Most Favored." because this brand is tin and new lead, the utmost favored by archi tects, dealers, and buildmost care in manufac ers everywhere. MF ture, successively Roofing Tin was contribute to making MF the first made in best of all Wales 50 years ago-later the process was improved in Americaand the pro-duct develmany roofs made of MF 50 oped, until now MF Roofyears ago are ing Tin is more sound as ever today. MF Roofing Tin in demand than any other brand. The superior quality of MF is sold by dealers everywhere. Specify it in your building estimates. Ask Roofing Tin is attested by the first prize awarded your roofer, or { W. C. CRONEMEYER, Agent, write { Carnegie Building, Pittsburg and receive illustrated book on roofing. it at the Paris Exposition, 1900, where it was in competition with

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roofing. It is most economical, because it lasts longest-

The Apiary

Editor RURAL WORLD: Ad those wh

smaller and more apt to be all taken up in transplanting.

It is a good deal more trouble to set trees in a straight row than in a crooked one, but they look better and are more easily cultivated.

Whenever root grafting is used in the winter the plants should not be set out in the spring unless the grafts have grown together.

Bees do not seem to know much about their own hive, but only the surroundings and location of the same which they have marked, and the field bees that go some distances in search for honey, will return on their former lines.

Some think that to set hives against the south side of a building in winter is a good plan, thus giving them the benefits of the warm sun during the day, but this is not beneficial to them and I would gather prefer the north side of a building rether prefer the north side of a building.

this is not beneficial to them and I would rather prefer the north side of a building, if moved at all. The sun in winter is no benefit to bees, except on a day warm enough for them to fly out, and the hives are better shaded from the sun than otherwise. Chaff hives with thick walls prevent the sun from warming up the bees in the hive during days not warm enough for them to be out, which is proper.

SURPLUS COMBS, SECTION BOXES, ETC.

Empty combs are a valuable adjunct to the aplary, and we can preserve them only by good care. Moth worms are very destructive to empty combs, and will in a short time cut them to pleces. Mice are also destructive to them, especially if they contain pollen or, honey, watee frequently get into the hives of bees in winter, when it is cold the bees cannot sit, and do much damage to the combs. The entrances of hives should be too small for mice to enter the hive, but they are not slways made thus. Empty combs, and empty section boxes partiy filled with honey, and frames of comb also containing honey in them, which is very valuable to give the bees in spring time to add to their reserve stores during the breeding season, and these surplus combs will be cleaned up nicely for use a little later. Sections that are kept over in good order, and contain drawn out comb, will be a great help to the bees in getting town with such help will begin working much earlier in the boxes, thus insuring the best possible results in the way of a surplus honey crop.

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THE USE OF LIME ON SOILS.

Probably more general misunderstand ing prevails regarding the use of lime of soils than any other mineral elemen which we apply, says an exchange.



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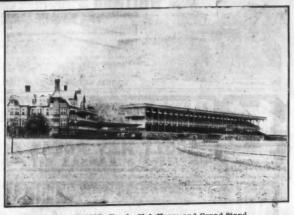
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Hereford Breeders' Association, Herefords; E. E. Woodman, secretary.
December 4-5.—American Hereford Breeders' Association, Chicago, Ill. Week of International Live Stock Exhibition.

Names City, Mo.

Which stock is abused in order to save a few dimes.
It seems that the stock yards people could and ought to see that some protection is given the animals they handle. It is given the animals they handle in order to save a few dimes.

It seems that the stock yards people could and ought to see that some protection is given the animals they handle in order to save a few dimes.

It seems that the stock yards people could and ought to see that some protection is given the animals they handle it was a few dimes.

It seems that the stock yards people could and ought to see that some protection is given the animals they handle it was a few dimes.

A switch stock is abused in order to save a few dimes.

December 8-9.—J. E. Logan and Benton Gabbert & Sons, Herefords, Kansas

October 30.—F. T. Bates, Bates City, Mo., SUMMER AND WINTER FEEDING mer, the question was asked:
"What is your average daily gain per Sale at Odes November 4.-Chenault Todd, Fayette.

ham, at Sturgeon, Mo. November 12.—T. W. Ragsdale, T. A. Bailey and Wm. R. Turner, at Shel-

Bailey and Wm. R. Turner, at Shel-bins, Mo.

November 12.—Purdy Bros., Shorthorns,
roughness consumed, 93,872 pounds; total
results of our experiments indicate that

Live Stock

DATE CLAIMS FOR LIVE STOCK
Claim dates for public sales will be charged the bear with the couling from my former location in this column free, when such a paper before. The Daily and the country pattern and the things of the way the published in this column free, when such claim are to be advertised in the RURAL WORLD here at home this evening, as in published in this column free, when such claim are to be advertised in the RURAL WORLD here at home this evening, as the published in this column free, when such claim are to be advertised in the RURAL WORLD here at home the evening, as the published in this column free, when such claim are to be advertised in the RURAL WORLD here at home the evening, as the published in this column free, when such claim and the thing of the same are to be advertised in the RURAL WORLD clother is.— I see a dark to be advertised in the RURAL WORLD clother is.— I see a dark to be advertised in the RURAL WORLD clother is.— Read the way the same property of the sam

November 15.—A. B. Mull, Iola, Kas., Poland Chinas.

December 5.—J. D. Jesse, Browning, Mo., Poland Chinas.

December 5.—J. D. Jesse, Browning, Mo., Poland Chinas.

Dec. 32. 1962.—Combination Hog Show sale, Kansas City, Mo.

November 13.—Kansas Breeders, Manhattan, Kas.

November 13.—Combination sale Berkshires, at Manhattan, Kas.

November 13.—Combination sale Berkshires, at Manhattan, Kas.

Nov. 6, 1962.—Combination sale, East St. Louis, Ill.; Manager, C. H. C. Anderson, Carlinville, Ill.

Dec. 3, 1962.—Combination sale Berkshires, Manager A. J. Lovejoy, Roscoe, fil.; Clerk, Charles F. Mills, Springfield, Ill.

Teb, 13.—Biltmore Farm's annual sale of Berkshire brood sows, Biltmore, N. C. SHORTHORN SHOWS AND SALESS.

October 30.—Central Mo. Shorthorn Breeders' Asso. Combination Sale, at Mobelly, Mo. E. H. Hurt, Sec., Clifton Hill, Mo.

Ott. Il.—J. C. Hall, Hallsville, Mo., sale at Centralis, Mo.

New, ul.—J. J. Littrell, E. S. Stewart, Dr. J. F. Keith and J. H. Cottingham, at Sturgeon, Mo.

HEREFORDS.

October 21-22.—American Hereford Breeders' Association, Kansas City, Mo.

Work of American Royal.

HEREFORD PRIZES

10.-T. H. Pugh, Herefords, of the Hereford Breeders' Association December 10.—T. H. Pugh, Herefords, Kansas City.

January 28-31, 1903.—T, F. B. Botham, Herefords, Kansas City, Mo.

January 28-29.—Combination sale of Herefords at Chicago.

January 12-17, 1903.—C. W. Armour and Jas. A. Funkhouser, Herefords, Kansas January 12-29.—C. A. Jamison and others, Peorla, Ill., at Chicago.

Pebruary 10, 11, 12, 1903.—C. A. Stannard and others, Herefords, at Oklahoms

And others, Herefords, at Oklahoms

Manuary 28-29.—C. A. Deformand the deformand of the teers, spayed or martin helfers, any age, 15 head to constitute a carload: First, \$250; second, \$150.

Chicago.

COMPARED.

Editor RURAL WORLD: The tendency Sovember 5.—W. W. Pollock, Mexico, Mo., Shorthorn Cattle, Poland-China Summer on grass has been brought into question by some of our authorities, and the result of some of our experiments in this line will be interesting.

Taking the results of all our winter the deline experiments during the past five feeding experiments during the past five feeding experiments. of recent years toward full feeding in summer on grass has been brought into

November 6.—S. P. Emmons, Mexico, Mo., Shorthorn.

November 10.—Branstetter, Robinson and Wright, Shorthorns, at Vandalla, Mo. of cattle, etc., be fairly comparable with our summer feeding, we have the followards of the fairly comparable with the control of the

ing summary:
WINTER FEEDING. Time covered by experiment, five years; number of steers involved, 105; average

November 12.—Purdy Bros., Shorthorns, at Harris, Mo.

December 16.—F. M. Gifford, Shorthorns, Milford, Kas.

November 19.—Cooper County Shorthorns, Burceton, Mo.

November 29.—I.—North Missouri Combination Sale Association. Trenton, Mo.

November 29.—Shorthorns, W. P. Harned and F. M. Marshall, Kansas City.

December 16.—Gifford Bros., Milford, Kas.

November 29.—Shorthorns, W. P. Harned and F. M. Marshall, Kansas City.

December 16.—Gifford Bros., Milford, Kansas City.

December 18.—Combination sale, J. D. Jesse, Mgr., Browning, Mo.

Locember 18.—Gifford Bros., Milford, Kan, at Kansas City.

February 19-11.—Col. G. M. Casey, Clinton, Mo., and T. J. Wornall & Son, Liberty, Mo., at Kansas City.

February 17.—D. K. Kellerman & Son, Mound City, Kan., at Kansas City.

February 18-9.—I. M. Forbes & Son, at Chicago, Ill.

H. J. Hughes, Secretary.

cattle. It is, of course, conceded without argument that the hog does better fol-lowing summer fed cattle on grass, espelowing summer fed cattle on grass, especially if there is some clover in the pasture, and so does the steer, than when with cattle in a dry lot in winter. It is also true that the labor bill is considerably less in summer feeding than in winter feeding, inasmuch as the handling of the roughness and the hauling out of the manure are eliminated, and the cattle are then usually fed grain but once a day—either very early in the morning or preferably in the evening after sunset.

THE PRACTICAL FEEDER'S EX-PERIENCE.—Bearing upon this question

PERIENCE.—Bearing upon this question an inquiry was addressed to a large num-ber of the most successful and experi-enced cattle feeders of Missouri, Illinois profit of summer and winter feeding. These men represent an average experience in feeding cattle of nearly twenty years each and have fed and marketed over two million steers.

The following is a summary of their of the year have you found most profit-

able for full feeding?"				
Season.	Mo.	Ia.	m.	Tota
Winter	57	9	5	7
Bummer	353	45	16	41
Spring and summer .	99	4	2	30
Summer and fall	57	6	2	
Spring	45	5	4	1
Fall	69	16	5	1
All year	17	1	1	1
-		-	_	-
Ploto1	20/7	602	96	92

THULL	ropiico	Summer is cu	Yes.
Missour	1		296
Iowa		************	56
Illinois			20
Tota	1		372
-			

steer on full feed? IN WINTER.

	lbs.	per	day.
Missouri			2,11
Iowa			2.32
Illinois			2.18
			-
Average			2.20
· IN SUMMER.			
	lbs.	per	day.
Missouri			2.90
Iowa			2.80
Illinois			2.84
			_
Aziozogo			9.05

Unquestionably summer feeding

collie shepherd dogs, for which he is desirous of finding customers. See his ad-

We notice that the L. A. Spies Breeding company of St. Jacob, Ill., won every premium they entered for at the High-and Fair, and are now offering their pre-mium stock of Poland-Chinas and O. I. C. hogs for sale very reasonable, quality considered. Write them for prices. We an cheerfully recommend their stock.

G. H. Miller, Bluffton. Mo., is offering some bargains in Angoras. He has some young registered bucks for sale, and can also supply pairs or trios. As he is a breeder of registered stock only, his of-fering can be relied on as being good. See his advertisement in our stock col-umns.

Those wanting Shorthorn cattle should not overlook the public sale of Terrill & Kincaid at Walker, Mo., on Sept. 30 when they will sell a useful lot of cattle when they will sell a useful lot of cattle in just good breeding flesh, nearly all red in color; the rest good roans. This sale will undoubtedly be a good place to buy them right. Our advice to you is to attend the sale and be convinced.

Mr. W. S. Roberts, Pleasant Green, Mo., is offering some good bargains in Scotch-topped Shorthorn heifers. Young Marys, Rose of Sharons, Josephines, Young Phyllises, etc. Mr. Roberts means just what he says as to the stock he offers being bargains, and those wanting well-bred Shorthorns for a little money had better write him for details, or, still better, go and see the stock at once. Se

mares (one by Onward), dams by Robert McGregor, Grand Center and D. Monroe, by Jim Monroe; two of these are in foal to Eagolyte 29215; one in foal to Silver Simmons 21652, record 2:16%; six mares by Norval, dam of two of them by Black wood 74, and the dams of four by On wood 74, and the dams of four by On-ward. Fifteen of the weanlings, and one, two and three year olds are out of the above mares, and are sired by Eagolyte 2225, by Onward itill, by George Wilkes, dam Betsy Baker, by Dictator 113, and Silver Simmons 21656, record 2:165, by Simmons Boy 17517, by Simmons, by George Wilkes, dam Hattie Cromwell, by Harrison Chief 881. This entire consign-ment have plenty of size, bone, style and

WILL YOU FEED THIS WINTER? the auction offering of 2,000 prime feeding calves and cattle which Mr. Sotham will make at Weavergrace Farm, Chillicothe, Mo., on Oct. 7 and 8. This is an entirely novel event and one that in all its aspects merits the attention of buyers of top feeders. No man understands better than Mr. Sotham the class of cattle now in demand by the best feeders of this country. For years he has catred to a large private trade in feeding cattle selected from the great range herds withespecial reference to their breeding and the adaptability in type to our corn belt feed lots, and his customers have evinced that lots, and his customers have evinced that satisfaction which comes from a profits-ble business venture. It need not be re-called that Mr. Sotham selected and sold to Mr. Black of Ohio the bunch of grade Herefords which won the grand cham-pionship at Chicago last December. He knows where to get more cattle of that kind. He will have them in his offering kind. He will have them in his offering at Weavergrace. Every precaution will be used to get these cattle from the range country in the best possible condition, and they will be graded up in lots of twenty and twenty-five. The stock yards of this country would require to be searched day after day to find cattle of such uniform excellence as Mr. Sotham will offer. He has selected this stuff personally and buyers may count on finding at Weavergrace a class of cattle, whether Herefords, Shorthorns or Angus, into which they may confidently put uneir corn.

L. G. JONES, Towarda, III. Shorthorn Cattle, Berkshire Hogs, Angora Gosts, Light Brahma and Golden Sesbright chickens. Stock and eggs for sale Call on or address. J. J. LITTRELL. Stargeon, Mo.

Highland Park Herd. Pol. Durham Cattle, Duroc-Jerrey Hogs. Young stock of both kinds for sale. Inspection of the herd invited. Address G. W. Johnson, Lexington, Mo.

SHORTHORN HEIFERS.

Shoo-Fly



BUGOLEUM is the most SHEEP DIP

AUCTIONEERS.



Jas. W. Sparks, Live Stock Auctioneer,

J. ZACK WELLS, Sales made anywhere on earth. Correspondence Solicited.

W. D. ROSS OTTERVILLE, MO Live Stock Auctioneer
Your Patronage solicited. Terms reasonable.

FOR SALE __40 Registered Shorthorn Heifers from 6 to 8 months old—good ones—at farmers' prices. Young Mary, Rose of Sharon, Josephine, Phyllis, etc., families, and sired by Lochiel 119976, Scotch Minister 117294, Scojoh Steward 178367. 3AM W. ROEERTS, Pleasant Green, Ms.

Protect your calves against Black Leg with PASTEUR VACCINE CO., CHICAGO, NEW YORK, FT. WORTH, SAN FRANCISCO.

RAVENSWOOD HERD OF SHORTHORNS.

Registered Shorthorn Cattle 600 HEAD IN HERD.

AND POLAND-CHINA HOOS, Bred and For Sale by H. A. BARBER, WINI H. A. BARBER, WINDSOR, MO. SHORTHORN

at my farm, 4 miles N. of Walker, Mo., on

September 30,

consisting of BULLS, COWS and HEIFERS. All cows old enough will have calves at foot or in calf. Send for catalogue to

TERRILL & KINCAID,

WALKER, MO.

Note the Date-TUESDAY and WEDNESDAY, October 7 and 8.

... SATISFIED CUSTOMERS ...

From Virginia to Dakota everywhere testify to the satisfaction I have given them in supplying thousands of feeding calves and cattle. But where there is one man willing to trust such matters to another there are scores who prefer to make their own selections. While carefully filling as usual all orders intrusted to me, I will also cater to those who select for themselves. I will therefore sell to the highest bidder by public auction.

2,000 Head of Hereford, High-Grade Feeding Cattle.

Yearling Steers and Heifers. Two-year-old Steers and Heifers. Mostly Herefords. Never in the history of American cattle trade have so many high-class cattle been offered in one sale. You could spend a month among the stocker traders of the big markets and not see as many good ones as you can see here in one day. They will be sold—rair or shine—in lots of twenty or twenty-five, uniformly graded as to sex, age, quality and breed, in the new Sale Pavilion at

WEAVERGRACE HEREFORD FARM, TUESDAY AND WEDNESDAY, OCTOBER 7 AND 8, 1902.

Sale begins at 1 o'clock p. m. each day. Special Chicago, Milwaukee & St. Paul trains between Chillicothe and Weavergrace side-track on sale day. Lecture on cattle and other appropriate entertainment will be given in the Luella Opera House Tuesday night in honor of the visiting stockmen. For further particulars address

T. F. B. SOTHAM, Chillicothe, Mo. N. B.—All the cattle offered in this sale are selected and high-grade, sorted at farm for uniformity and will reach Weavergrace without being injured in transit or stock yards by constipating prairie hay or other rough treatment. They come direct from the prairies of the West to the blue grass of Weavergrace by special fast freight trains and will be loaded on cars free and shipped to buyers in best possible condition. Lowest freight rates secured to any railroad point. Believing that I can supply better stock, in better condition, at prices (quality considered) that defy competition. I confidently and cordially invite the attendance of all lovers of good cattle. You are also invited to inspect the Weavergrace pure-bred Hereford herd, and especially to see the four best bulls I ever bred.

Administrator's Sale.

As administrator of the estate of Mrs. H. D. Ayres, deceased, I will offer at public sale, at "The Maples," 2 miles wast of Breckenridge, Wo.

Wednesday, October 1, 1902.

The following described property, to-wit: 13 Head Thoroughbred Shorthorn Cattle, consisting of 9 Females and 4 Bulls, all recorded; 3 2-year-old Steers; 6 head of grade Cows and Heifers; 1 yearling Steer; 2 Jersey Cows; 1 yearling Horse Mule.

25 Head Standard Bred Horses, Mares and Colts, all recorded. Certified pedigrees furnished on day of sale. Two Brood Mares and Colts (non-standard). About 80 head of grade Shropshire Sheep; 35 head of Hogs, consisting of sows and young pigs and stock hogs.

A part of the horses in the above list are the property of Fred H. Sturgis, of Nettleton, Mo.

The Mares in the above list are some of them sired by Calm (9256), some by Chitthorn (11241) and are all bred to Velocidad (14901).

Terms: Cash, or 6 months note, with approved security, note to bear interest from date at the rate of 6 per cent.

Catalogues of cattle and horses furnished by applying to H. D. Ayres, er to the undersigned.

COL. HARRY W. GRAHAM, WALTER O. HART, COL. W. M. DUDLEY, MAMMA



Sunny Slope Herefords. 150 head for sale, consisting of 50 very choice Cows from 3 to 8 years old, 50 Yearling Heifers,

and 50 Bulls from 8 to 24 months old. : : :

Prices Very Reasonable. Write for what you want. C. A. STANNARD Emporia, Kansas.

ST. LOUIS NATIONAL STOCK YARDS.

THE LIVE STOCK MARKET OF ST. LOUIS. National - Stock - Yards.

C. G. KNOX, V.-Pres. C. T. JONES, Gen. M'gr. L. W. KRAKE, As'st. Gen. Mgr.

..HEREFORDS..

YOUNG STOCK FOR SALE.

CUDCELL & SIMPSON, MISSOUAL

Horseman



credited with eight pers is now credited with eight perthat have made records better
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Horse Owners! Use GOMBAULT'S Caustic Balsam

The safest, Best BLISTER ever used. Takes the place of all insaments for mild or severe action. Bestores all Bunchents for mild or severe action. And Cattle, Superselection of Cattle, Superselection of Cattle, Superselection of Cattle and Cattle, Superselection for Cauttle Superselection of Cattle and Cattle, Superselection for cattle sold is warranted to give satisfaction by express, characteristic for the superselection for the su

ord-breaking performance until the grand citmax shall have been reached, which time to the study and practice, purchased in the property of a life-time to the study and practice, purchased a pity it is that there is no foeman worthy of his steel, for if there were what a giorious series of races might be given, and one could willingly forget that any and all horses that have gone be ore him. He is a 1:58 pacer, even if he ever equals that mark.

> BLUE BULL NOTES. By L. E. Clement.

Single State peculiarly made shoes for correcting any objectionable action that the animal may objectionable action that the animal may have acquired. I use only plain, narrow-webbed shoes in all cases, except as in one solitary instance related further on in this screed—that is, I did when I was in the farriery business, but I am not in it now. That is why I am selling out the few remaining copies of my book "Shoeing Horses." While I was in the business I discovered that neonly who may be the property of the property of the property who may be the property of the property o

We show the shift THE VEARING THE ACT OF ness I discovered that people who pos-cessed a copy of my book were able to teep their animals in such a satisfactory manner of traveling that my services were not needed. The book told them what to do; therefore I withdrew the book



desperation and abandoned the enterprise in disgust.

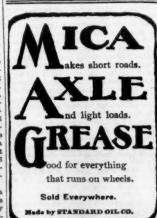
The morning of the 5th broke bright and clear, the day proved an ideal fall day, the gates opened for the influx of people-who came not. The "play" was to "empty benches," not twenty-five paying patrons present. There was a little "green trot" for local horses, Wednesday was another beautiful day with about 350 patrons present. Thursday broke gray, dull, chill and threatening. The buggies, surreys, phaetons, coaches, carriages, carryalls and what not, came through Memphis from shortly after daylight until after the dinner hour, when your representative took his departure for the grounds. Not to be out of fashion, a steady "drissle" of cold rain sat in about 10 s. m. and continued until between 2 and 4 o'clock in the afternoon. The racing was keen, though fast time was precluded by the condition of the track.

Friday, the last day, was clear, but a piercing northwest wind blowing over the snow that fell in South Dakota the day previously, made overcoats a very desirable possession. A crowd of some thirty-able possession. A crowd of some thirtypreviously, made overcoats a very de

resent the day before, shivered and nook while they watched some very in-presting contests on the track. A thril-ng accident occurred in the third heat if the twenty-five pace. Going down the ack, stretch on the last half, the bay mare Oaksey F., owned at Edina, Mo., by P. C. Gibbons, while passing the field like a streak of "greased lightning," caught a front shoe and fell, throwing her head. Everyone thought the mare was killed, as she lay without a struggle. Her head. Everyone thought the mare was killed, as she lay without a struggle. Her driver staggered to his feet and limped to her assistance, far the worst hurt of the two, having a dislocated shoulder and a badly strained ankle, in addition to a severe shake-up. The mare came out for the next heat apparently none the worse for her fall and paced the race out. F. H. McCullough, mayor of Edina, sat behind her the first heat after the accident, but not being able to get her to the front, her owner got up the last heat, though too sick to drive the race, and piloted her. The fall must have shaken her confidence, as, in that field of horses, she was "facile princeps."

The display of stock was up to the usual high standard. J. W. McDermott, Secretary of the Clark county fair, had the prize herd of Shorthorns. W. E. Cowe, near Memphis, showed a prize herd of black Doddles. G. E. Leslie, banker, farmer and all around hustler of Memphis, had the "boss" Poland-China hogs, headed by the "unbeaten "Dan Patch."

There were red hogs, "spotted pigs" and about all the kinds on record except the





with them and giving a chicken a toss with her nose—sometimes high in the air, and, although, as a rule, a chicken never learns much by experience, they never seemed in a hurry to wander over the line, again after one experience with the gain after one experience with the Countess.

I have strongly impressed upon my memory one of the most sensational "points" I have ever seen a dog make, which occurred on one of our trips after quali in Nebraska. She was quite a fast ranger and was racing down a steep incline at her characteristic pace, almost with the wind, and the combination brought her very close to a bevy of quali, which lay in close cover a little to the side of her course, before she caught the scent. In her frantic attempt to stop instantly and make the point, the ground gave way from beneath her feet and the Countess came to a sudden stop flat on her side and there she lay, stiffened out, with her head bent up and backward toward the hidden bevy, and she would not get up or move until I had scrambled down the bank, flushed the birds and done may part with the gun. That was a pretty picture, indeed; and when the o'd hunter had retrieved the dead birds she sat up in front of me, looking into my face with a most perfect expression of the sat up in front of me, looking into my face with a most perfect expression of the sat up in front of me, looking into my face with a most perfect expression of the sat up in front of me, looking into my face with a most perfect expression of the sat up in front of me, looking into my face with a most perfect expression of the sun has first shed make the court is dense, when the soft side cover is dense, when the soft side cover is dense, when the sun has first shed make the court of grasses a gem-studded bed for our feet to traverse; and the curp rays which the sun has first shed make the carpet of grasses a gem-studded bed for our feet to traverse; and the curp rays which the sun has first shed make the carpet of grasses a gem-studded bed for our feet to traverse; and th sat up in front of me, looking into my face with a most perfect expression of mirth imaginable, and I am sure she felt

mirth imaginable, and I am sure she felt the comic part of it as much as I. But the Countess has gone. Never again will that joyous bark ring out at the sight of gun and hunting coat, when "the frost is on the pumpkin" and the quali are ly-ing 'long the course of the creek by the







Used and Endorsed by Adams
Express Company.

Nothing equals it when used internally for Colic,
Distemper, Founder, Pneumonia, etc. Tuttle's American Condition Powders

aprains, bruises, etc. Kills pain linearity. Our not-page book, "Veterinary Experience," FirEE.

Dr. S. A. TUTTLE, 32 Beverly St., Bestee, Mass. Beware of so-called Elizirs—sense gennise but Tuttle's.

Avoid all blisters; they offer only temporary relief, if any.

eases arising therefrom.

TUTTLE'S PANILY ELIXIR cures rheumatism,
accounts bruises, etc. Kills pain instantly. Our 100-page book,

Home Circle

Written for the RURAL WORLD.
LIFE THREADS.

Fine the thread the mender choo strands he slowly uses

ed hopes where hearts are breaking

Severed hopes where hearts are break!
Heavy burdens rents are making
Faith out torn
In some soul.
'Tis God's hand a needle guideth;
Thy life-thread He gently plieth
Through the rents. New courage lieth
Fair and whole.

Steady hold thy thread in spinning; Strong and fine with color fair, Thy life-thread may thus another Life repair.

ESEMES.

Written for the RURAL WORLD. "AT HOME AGAIN."

A recent article in the "Home Circle," under the above caption, by Mrs. Levi Chubbuck, struck a responsive chord in our heart. It is indeed a wholesome truth that only those who have realized the ex of the home coming can feel t the fullest measure the pleasure of its cup of happ ness. But few times in our eventful life has it been our lot to be long away from home, and the return each time has been fraught with happy memo-

ries that will never fade away.

Our longest absence was during the civil war, when we left home a mere boy civil war, when we left home a mere boy and returned after the conflict had ceased, only to find all so changed that it seemed but a dream of the past—even our baby sister had grown far up into the years of girlhood. The changes that had been wrought in those years were almost beyond the power of mind to conceive. All things were so far beyond our remembrance that we were long in adapting ourselves to the situation that confronted us in the new phase of life. But, oh, the joy of that home coming, and the realization that we were again among the loved ones can never be forgotten. In all the changes of life, the absences that have occurred since that memorable return it has ever been, to a large measure, the same. He who wrote "There is no place like home," struck the deepest chord in the unity of real social life that has ever been attained in all the truisms off literary lore, and inafter the conflict had ceas-

cial life that has ever been attained in all the truisms of literary lore, and in-scribed a thought on its pages that wil-survive through all the ages yet to come

s the acme of human bliss. When that home-coming has occurred through a change in business pursuits, and one has come home for rest and rec-reation, how great is the happiness de-rived! There is no language sufficient to measure its depth of joy. Again, when that change has brought about a closer relation in the duties of life, or a bringing nearer together in the exchange of ght through the medium of the pen excellent a channel as that afforded by the RURAL WORLD "Home Circle"—the advent of Mrs. Levi Chubbuck changing from editor, in which her work was well done—to become a contributor its columns—the meed of posterior of word off is far beyond the power of word DYPE.

Written for the RURAL WORLD.
WHY WE WRITE.

Yes, dear friend, it was a rash proposi-tion to offer to help literary aspirants, born of the great necessity I have long felt for certain technical knowledge requisite for success in a financial way. I can have more articles accepted than I could possibly get ready. Pay? Oh, that was a different thing. Good words—hosts of friends—lots of papers—all came, but -lots of papers-all came, but of the little knowledge that proved a dangerous thing to me, that led me to write what I did. We might appear quite learned to the tallow candles of literature, like myself. But there is no deceiving the editors, and methinks I heard a whistle "sanctumonious" chief, and saw a grin as he hung my copy on its hook Still every one will get an answer who writes me, if they will inclose a stamped envelope. My desire for letters is insatiable, so all are welcome, for I can tell all I know in fifteen minutes, and some things I don't know of authors, syndi-cates, press associations, schools of jour-

case of Catarrh that cannot be cured by Hall's Catarrh Cure.
, F. J. CHENEY & CO.,

Showing the reason as ages roll on

Ever since the beginning of time, They came with the banner of truth un-

And planted the cross in every clime. a letters of gold, with patience sublime Each note of the heart is recorded

victory o'er life with glory un-Marched on to the end through a path

weeter than Eolian harps at even Was the voice that gave me strength

of pain in this life have been As the fire that refines is fadeless and

pure. hands on the lever of all ages of time.
You have the keynote of success written there,
The light of the world, the promise di-

tle pointers that I have learned outside only a return of the war whoop and bat-

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The great helps along literary will the writer must have natural byte for his work and an unconwill that determines to over
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y road to literary success lies
y line. Study the different puband write to suit their requireIf the manuscript comes back,
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the beauty of our productions.

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which once roamed New England.

Schatter of Columbia represents the
discordant chorus of eaglets in a nest
fighting over the carcass of a plump rabbit. Cornell's crazy utulation is the maudtime cry of a flock of crows. Pennsylvania's long how is the angry bellow of
an infuriated moose.

When an Indian indulges in this earwhen an Indian indulges in this earand blue unit

cured by Hail's Catarrh Cure.

F. J. CHENET & CO.,
Toledo, O.
We, the undersigned, have known F. J.
Chency for the last 15 years, and believe him perfectly honorable in all business transactions and financially able to carry out any obligations made by their firm.
West & Truax, Wholesale Druggists, Toledo, O.
Hall's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system. Price, 75c per bottle. Sold by all Druggists. Testimenials free.
Hall's Family Pills are the best.

NEW WHEAT MAKES GOOD FLOUR.
The following from the "Modern Milleles" and where wheat has been bleached by the excessive rains. "Although the new winter wheat as the crop last year, it is producing a far better flour. Last year and the child saved.

Once again I used it, and with none but grading as high as the crop received some setbacks, especially in Kansas, Okiahoma and Texas, owing to drough the free when the time for cutting came there belood flows almost as freely through the section of the country. The damp when the deposition of matter.

speller in our district. As for grammar, Lindley Murray might have come to me for pointers in those days. The editors would take this assertion now with the proverbial grain of sait, even if I came to them with the Bible in my hands.

Few, indeed, have reached fortune and four, however, the result has intended a bound. If you can say, "I have a message to be given; for this cause came I into the world. I will fight to dut on this line if it takes all my life." takes all my life." ered in the last year's harvest. all the knowledge was much complaint last year, espe with the spirit and the Do not be discouraged. flour. It was claimed that while the endeavor is never lost. wheat grain was large, heavy and re-Write with the spirit and the ding. Do not be discouraged, housest endeavor is never lost truth, winged with love, will be heart, brighten some life. He drap love must sow the seeds millers considerable difficulty. This year no such complaints are heard. The flour e price of progress: from the new wheat, although the grain life of God's only is not nearly so good looking, has both ogress! from the new wheat, although the grain Son,
On down to the tale of the "Man with

The wheat looks bad enough. It is inng to know that it is better than

SAVORY VEAL.

One need not buy the best cuts of veal One need not buy the best cuts of vest in order to serve some savory dishes. writes E. B. in "Orange Judd Farmer." In serving some fricassee veal my little nephew asked where I got the chicken. In making this, buy not less than four In making this, buy not less than four pounds of yeal, any cut you fanny. Wash and put it into a kettle, turn boiling water over it and simmer three hours. Sait when partly done, cut into pieces two inches thick and fry brown in butter. Remove the meat on to some nicely tosated slices of bread. Pour some of the stock into the spider, thicken with flour, and season with sage. Pour over the toast and serve hot.

Veal Ple.—Place in the bottom of the pudding dish four sliced raw potatoes. Take all the left-over giblets of yeal and put on top of the potato; salt and pepper, and dredge with flour. Pour over this meat gravy and set in the over. While this is heating, make a rich biscuit dough by sifting I heaping teaspoonful of baking powder and one saltspoonful of baking powder and one saltspoonful of baking powder and one saltspoonful of salt into one point of flour. Rub in one tablespoon of lard and wet with some

fact that howling monkeys and roaring gorillas were singularly immune from the fourth line was the word "awful" spelled "offul." I have reason to think the editor never went farther than that awful mistake.

When a child I was the champion

HOW'S THIS?

We offer One Hundred Dollars Reward

How offer One Hundred Dollars Reward

How is that howling monkeys and roaring gorillas were singularly immune from the time to pulmonary troubles. This immunity has been found to run through the lines of the use of kerosene. The first time it was out on a ranch in Kansas. He had a fearful attack of membraneous croup. His father was racing over the prairie for a doctor, who could not be got in the thoughtful, it will carry joy to the yellers' kith and kin.—New York Home

We offer One Hundred Dollars Reward

Garam:

'I have saved my eldest boy twice by the use of kerosene. The first time it was out on a ranch in Kansas. He had a fearful attack of membraneous croup. His father was racing over the prairie for a doctor, who could not be got in the properties of the properties o my old nurse: 'We always killed the NEW WHEAT MAKES GOOD FLOUR. croup wid kerosene.' I had a horror her advice in my childhood, but ther

DESTINY ON THE FARM.

"My son, you better stay at home, Take care of both your mother and me And on the farm work out your destiny. But the son cried. "Nay, I must be off!

As he hastened away he merrily said. "For once the old man is out of his head To think such a likely fellow as me On the farm could work out his destiny!" He journeyed long o'er land and sea. In search of wealth and celebrity; Eut, with heart at last all weary and sore.

of the

Period

With ordinary care and

The Watch

Poultry

WHEAT FOR CHICKS.

Editor RURAL WORLD: When I read in the RURAL WORLD some time ago that it seemed doubtful that chicks could be raised on an exclusive diet of wheat, I felt as if I wanted to "speak right out in meetin." We had nothing else this spring but wheat, and really did not know that it would do at all by itself. The first hatch was fed wheat when first taken off; we noticed they began to thrive, so we kept up the exclusive wheat diet, and I must say I never saw chicks do as well. I have been raising chickens many

ten there, which is supported of success written for the most.

My titten for the EURAL WORLD.

A NEW MEMBER.

A country lass knocks at the door for harding and supported in the most.

A titten for the EURAL WORLD.

A country lass knocks at the door for harding and supported in the most.

A titten for the EURAL WORLD.

A waver that gay summer has flown, the most chopper, and one all agrees will be the though the meat chopper, and one half hour proves the most.

To me it seems a delightful idea for the gaidlest attrict; the children will be time and study, as illustrative or blacks and fry in deep lard, or dry in the gaidlest attrict; the children will be for the summer will be time and study, as illustrative or blacks and fry in deep lard, or dry in the gaidlest attrict; the children will be time there and then, lot winter will be all its anow and winds will be upon us.

To me it seems a delightful idea for the gifts of a community to form themselves into a beautiful care to brightness of the country of the cou

A white financed of the or plees of white was all to the adverged for free first was all to the adverged for free first was all to the first and then rub pleasant if there were other girls to join in the waster free first when the weather becomes cold and distance from the young folia of the waster free first when the weather becomes cold and distance from the form of the first waster from the form folia of form, especially when the weather becomes cold and distance from the form of the first waster from the form from the young folia of the waster from the form from the young folia of the waster from the form from the young folia of the waster from the form from the young form from the young from the young folia of the waster from the form from the young from the young folia of the waster from the form from the young from the young folia of the waster from the form from the young from the youn

THE

The Elgin Watch will never fail in its faithful performance of perfect timekeeping. Guaranteed against original defect. Every Eigin Watch has "Eigin" engraved on the works. Booklet free ELGIN NATIONAL WATCH CO., Elgin, Illinois.

breed as a winter layer if warmly housed and well fed, and they lay fine, large eggs.

E. W. GEER.

THE DUCK FOR THE FARMER.

The frequently asked question, is the best duck for the farmer?" now to be a settled one. From persona experience, as well as from that of others, we think that the Pekin stands in the that it would do at all by itself. The first class with the readers. The instead wheat when first taken off; lead. It surpasses the other strains in we noticed they began to thrive, so we kept up the exclusive wheat diet, and I must say I never saw chicks do as well. I have been raising chickens many years, have had fewer sick ones this time than any year I ever attended them. I think it was the wheat diet. I am glad I have tested it and gladly give it to the readers. It is so easy to feed, and they to thrive so nicely on it. We are so glad to thrive so nicely on it. We are so glad them far more comfortable during the hot them far more comfortable during the hot them far more comfortable during the hot them far more comfortable during the hot

I have tested it and gladly give it to the readers. It is so easy to feed, and they do thrive so nicely on it. We are so glad that we are still to enjoy Mrs. Chubbuck. I never knew why I enjoyed "Mrs. Mary Anderson's" letters so much, but it is all plain enough now. I very much enjoy Mrs. McNey's "Sunny Slope Farm," especially the sheep and lambs. The ittle red helfer that got the artichokes from a sack in the yard.

I have Ross Autumn's home pictured in my mind, with its flowers and nice conveniences. May Myrtle's summer home is another, too, that I fancy I see, with all its beauties and many others in fancy I behold. I get those glimpses through the RURAL WORLD. What a lovely place home is, that is, when the home is right and the immates are righteous. So many meanings cluster around the word home, when it is all that nature and grace can make it, has a blessedness and heauty of the strain on secons to the strain on secount of their appearance.

The Pekin will thrive almost as well away from water as near it; but it is all the better for them to have access to a little water, as it keeps them in better health. They do not give the farmer the

home is, that is, when the home is right and the inmates are righteous. So many meanings cluster around the word home. It was Henry Giles who said, "Home, when it is all that nature and grace can make it, has a blessedness and beauty of reality that imagination, in its fairest pictures, would find nothing to excel."

When we were left alone in this world with one son in his teens to assume the duties that belong to the farm home we prayed that God might give us the strength to go forth and that His blessings might fall on the seed sowing and the reaping. We realize day by day that God answers prayer and that by His blessings we are at least "making a living."

The lad having developed into a young the seed of the size, laying qualities and rapid growth.—

The lad having developed into a young the seed of the size, laying qualities and rapid growth.—

The lad having developed into a young the seed of the s

PRESERVING EGGS.

The Rhode Island station has be making some experiments in the preser vation of eggs. For this purpose various nample lots of fertile eggs were placed in preparations of water glass, dry table sait, lime water and sait brine, vaseline ashes, gypsum, powdered sulphur an sulphur fumes; pemanganate of potash sallcylic acid and sait brine. The station says:

of the different methods tested in the series of experiments the old way of us-ing slaked lime and salt brine proved to be very effectual, and has the advantage of being inexpensive. It is also not diffi-cult to practice. For a period of a few weeks only, smearing the eggs with vaseline may prove an effectual method of preservation. In the place of vaseline al nost any clean, greasy substance may l used. For a period of a few months only packing in dry table salt is worthy of rec

Of all the substances experimented with the water glass solution proved most worthy of commendation. The experiments showed that the water glass solution could be reduced to 3 per cent and still retain its preserving quality. It can be obtained at most druggists' at from 40 to 90 cents a galion, is easily manipulated and the solution may be completely immersed in the solution, and if any eggs float an inner cover which will sink them below the surface of the liquid should be used. In several tests where the eggs were placed in stone jars inverted saucers were used for this purpose. The expense for the water glass at even 60 cents a gallon would amount to about two-thirds of Of all the substances experimented with on would amount to about two-thirds of cent for a dozen eggs. Of course this other receptables, which may be of stor ware, glass or even wood.

POULTRY NOTES.

While chickens bring such good prices comparing; there is a great to sell even more than the

surplus, writes a correspondent in "Indiana Farmer." One can always have excuses for so doing.

It is always sensible to sell all that we
have not room for, or that we can not
care for well, but to sell good hens just
because they are a good price is something like killing the goose that lays the
golden egg. Hens' eggs are not gold, but
they keep one from spending the sliver.

Take extra care of the year-old hen rough the moult; feed all nice pullets ith a view to winter eggs, and the price f eggs this winter will please you

Sell all cockerels not needed on the hor able; sell all old roosters, the

Long after, I have looked over some oils one however some oils of the howeve

value of three normal years: 1890, number cut clover or cabbage.

\$4.60 Guaranteed Oak, No. II for coal, and ligning

and satisfact. GATALOGUE

Empire Stove Manufacturing Co.

TAKE

SWALLOWS, RUSSIAN TRUMPETERS. Magpies, Wing To Barbs, Owls, Car Archangels, Hom PPER & SONS, Props., 7822 Ivery Ave., St. Louis, No

\$5.00 BUYS a Trie, choice young stock. \$1.00 pays for 15 Eggs. either Brown Lepton. White Leptone, Barred Reck, White Bock, Black Minorca, or White Wyandotte. Illustrated circular of fewis and buildings free.

E. W. GEER, Farmington, Mo.

PURE BLACK BREASTED RED GAMES. Cockerels \$1.50, Hens \$1.00, Trio, \$3, Eggs in season, \$1.00 per 12. Mrs. L. M. MONSEES, MINESTONE VALLEY FARM. SMITHTON, NO

1883—SATISFACTION—1902. GILT-EDGE strain—Lt Brahmas; S.L. Wyandottes. Fine Cock-vrels and Pullets for sale. Eight prices. My stock will do you good. H. T. EEED, Camp Point, Ill. Booky Hill Poultry Farm Breeds. - And has for eals thoroughbred Poultry; Wyandottes a papedaity; Silver Laced, Golden Laced, White and Bull Wyandottes; also Barred P. Rock and Bull Bronze Turkeys, winners wherever shown Goed breeders and exhibition birds at reasonable I breeders and wanted.

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PLYMOUTH ROCKS - CLOSING OUT SALE - Barred, Buff and White Young and yearling stock. Write for bargain price and mention your wants. Our ranch is for sale. / asplendid opening for the right party. NEPENTHI FOULTRY RANCH, New Florence, Mo.

BARCAINS in Buf Wyandottes, Buf Cochins, Buf Barcains Leghorns, Brown Leghorns, B.P. Rocks and White Holland Turkeys. Satisfaction guara-teed. Mrs. M. E. OREWILER, Shelbyville, Mo.

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Do not feed enough to fatten, but feed more than was needed earlier—for the feathers have to be made out of the hen's food; induce exercise, but do not compel them to work so hard they get discouraged.

When you think they have their new dress and ought to lay, catch a hen, part her feathers; if there are quills and little feathers next her skin (as I suppose there will be); she is not yet through the mouth. Be not too hasty to judge from outward looks.

OSTRICH FARMING

Corn is the cheapest of all foods OSTRICH FARMING.

There is no doubt that ostrich farming in certain parts of America will be carried on profitably. Many people have no conception of the extent of the industry. James G. Stowe. United States Consul, writing from Cape Town, Africa, says:
Ostrich farming was, at its inception, highly speculative, owing to want of knowledge and experience; but, for the last fifteen years, it has been a fairly stable and highly successful industry. The following shows the difference in value of three normal years: 1899, number

OUR ADVICE and write today for our standard for corry List. We send it to heads of families. It will you to save 15 to 40 per cent where and always prove satisf ory. Write for Grocery List tod Montgomery Ward & Co.

The Pig Pen

RAISING FALL PIGE

in the summer. You say that there is no grass in the winter to help out the grain ration. Where are the pumpking, the potatoes, the turnips, the beets, the bran or shorts, the oats, the milk, barley and rye, and the kitchen slops? These fed to the pigs in proper shape, with what corn they will eat, a good, dry, warm place to sleep, not too many together, and you will be surprised at the growth they will make and how well they will do in the winter. If they have comfortable quarters made for them you will see how nicely they will occupy them. You will not see them running over the farm cold days trying to pick up something to eat. They get it in a good, sheltered place, eat it and go lie down and grow fat.

In raising one crop of spring pigs a year we have to keep the old sows six and moths of the year for nothing, feeding corn, slop and grass all that time for nothing, which is clear loss, and added to the cher losses makes quite an item to the farmer. What need has the farmer to keep any stock on the farm that is not making him something some way, either growing or fattening into a money value, or by labor performed that will, pay for feed and care?—The Homestead, the part of the farm that is not making him something some way, either growing or feed and care?—The Homestead, and the part of the drey cannot he suite saved them all.

SKIM MILK AS A FOOD FOR HOGS.

improved and modern machinery to convert it to profitable use, and the "Porter a lone for a period of sixty days. During Cattle Feeding Machinery," made and introduced by the Whitman Agricultural Co., of St. Louis, seems admirably adapted to the purposes of cutting and preparing the corn crop for profitable feeding gain or practically one pound per day.



THE PART OF THE PA

The Shepherd

FINISHING OLD EWES.

instances. The explanation is found in the decided tendency to reversion in the animal of, it may be, the second and succeding crosses. The reason why this tendency to revert to the blood elements of ancestry more or less remote should exist in such instances are not easy of explanation; if, indeed, they can be explained at all. But the fact of the tendency mentioned exists, nevertheless, and because it does cross-breeding is rendered much more unsatisfactory and unprofit able.

A subscriber writes that he has been breeding believe by that the continued low price of wool is discouraging and that he thinks mutton will be more profitable. He asks whether to sell his Delaine flock and buy Shropshires or use rams of the larger English breeds on his present flock, selling all the offspring for mutton, or whether he shall keep the most desirable ewe lambs from this cross to replace his old ewes.

This is a problem often raised. It is gen-

Let it be borne in mind at the same time that because cross-breeding is not to be commended as a general practice, the same does not hold true of up-grading. This in meat making is always commendable when it can be practiced.—

Prof. Shaw of England.

This is a problem often raised. It is generally settled by adopting the last course times not. Very much depends upon the ram used. It is advisable to secure a ram that has been used and proven himsel a satisfactory breeder. The complaints I have frequently heard from this course of

ANCORA COATS FOR SALE.

Address: W. T. McINTIRE,

POLAND CHINAS

Best breeding and individuality. Early spring Pigs, both sexes by Chief Eclipse 22499, co ted 27156 and Sunshine Chief 27156 for sale at reasonable prices. Address 30 mi. E. K. C. E. E. AXLINE, Oak Grove, Mo.

SUNNYSIDE HERD.

Prize winning Berkshires and Shorthorn Cattle—young stock—for sale at all times. Address HARRIS & McMAHAN, Lamine, Mo.

FINE BERKSHIRES









AND THE SOUTHWEST TAKE

"THE KATY FLYER"

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AUSTIN, HOUSTON, GALVESTON,

ranteed

CE & Co.

MPETERS, BEER, on, Mo D GAMES.

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orking on. An or cards for what

MULES-Total receipts of mules were a very liberal number, but only about half of them were consigned to the commis-

sery liberal number, but only about half of them were consigned to the commission of them were consigned to the commission of the were consigned to the consigned to the were consigned to the were consigned to the were consigned to the consigned to the consigned to the were consigned to the consigned to t

CRAB APPLES—Michigan Hyslops II bu.

CRANBERRIES—New Cape Cod \$6 per bbl. and \$1 per box.

POTATOES—Near-by Ohlo from farmers' wagons 36642c for bottom stock to 45 6666c for bluff stock.

ONIONS—Red 356946c for good and 450 for choice; yellow 356940c and white 60 675c; poor stock less.

SWEET POTATOES—Yellow and Queen Segment 10 stock and 10 for the market. The auction offerings in luded but few choice horses, the general under he was good enough to attract be attention of the buyers present. It was an exceedingly good market, bidding being spirited and prices being quickly carried to their proper level and transactions consummated. Southern buyers bought a goodly proportion of the offerings, because the quality was largely to their advantage, but Eastern buyers also got a fair number, and prices on all were well sustained. Prices were not quotably higher than last week, but in view of the best Monday sales held here this season.

MULES—Total receipts of mules were a wery liberal number, but only about half years liberal and prices were not growing well, but in a few of the south-not provided by the management for operating the the degrees below the normal, with rather the state, the mean temperature of the week ranging from 4 to degrees below the normal, with rather the degrees below the normal, with rather the state, the mean temperature of the week ranging from 4 to degrees below the normal, with rather the state, the mean temperature of the week ranging from 4 to degrees below the normal, with rather the degrees below the normal, with rather the degrees below the normal, with rather the state, the mean temperature of the week ranging from 4 to degrees below the normal, with rather the degree selection of the week ranging from 4 to degrees below the normal, with rather the state, the mean temperature of the week ranging from 4 to degrees below the normal, with rather the total the degree below the normal, with rather the state, the mean temperature of the week ranging from 4 to degrees below the normal, with ported of excellent quality. Turnips are growing well, but in a few of the south

corn-fed bulls, \$4.00g5.00; good fat bulls, \$4.00g5.00; good fat bulls, \$4.00g5.00; good fat bulls as mail way from store at 11.50 feb. \$2.00g5.00; good fat bulls as mail way from store at 11.50 feb. \$2.00g5.00; good fat bulls as mail way from store at 11.50 feb. \$2.00g5.00; good fat bulls as \$4.00g5.00; good fat bulls as \$4.00g5.00;

nding September 22, 1992; Unseasonably cool weather has contin-fered by the management for operating

ed with the ear corn crushing and adding attachment. This mill will crush it grind ear corn and all other small ins, singly or mixed, and at the same of apply power for other uses. Will you will be supply power for other uses, will or you will be supply shown to the company of the country o tribing durables durables large captures of durables light power. See light power, see ligh The Stever Mfg. Co 534 River St.,

Ine. W. FRANK VAUGHAN.
Christian Co., Mo.

STOCK NOTES.

American Royal Cattle and Swine Show.
In connection with the above important show a sale of Berkshires will be held at the Stock Yarks Pavillon, Kansas City, Mo., on the 20th, 21st, 22d, 22d, 24th and 25th of October under the auspices of the American Berkshire Association. There will be a large and meritorious exhibit in competition for the liberal prises offered in the classes for Berkshires, and many will doubtless be offered for sale, which are fast coming into a large and meritorious breed of hogs, which are fast coming into a large and meritorious breed of hogs, which are fast coming into a large and meritorious breed of hogs, which are fast coming into a large and meritorious breed of hogs, which are fast coming into a large at the stock of this great sale will appear in our issue of this great sale will appear in our issue of this great sale will appear in our issue of this great sale will appear in our issue of on the 6th of October, but, to insure publication in the official catalogue, it is necessary they should reach the official attention to the fact that entries close on the 6th of October, but, to insure publication to Chas. F. Mills, secretary to American Berkshire Association, Springfield, Ill.

The Brown Fence and Wire Company of Cleveland, Ohlo, make a specialty of heavy-weight wire fences. The demand of their goods the past season was so great that they have more than doubled the fact that in all fence, where the hier capacity in order to be able to take the Will and the capacity in order to be able to take the stock Yarks Pavillon, Nansas City, could be large in size, and in support of their goods the past season was so great that they have more than doubled their goods the past each they have more than doubled the force that they have more than doubled the same are used they soon rust and break are to their capacity in order to be able to take the force are they have more than doubled the capacity in order the appear to be deare the

Editor RURAL WORLD: The harvest is here and the reapers are plentiful; it is only the harvest that is lacking. A brief resume of crop conditions at different stages of growth for 1902 may be of interest. We all know 1902 "by heart." The rains began here in March simultaneously with the first heavy rains in Missouri and Kansas. Crop conditions were as good as could be asked until a few weeks' drouth the last of April ruined wheat and oats, but timely rains again put corn fields in an ideal condition, which prevailed till the first week in June, when the summer drouth set in to last till corn was entirely ruined. Again on July 12th the drouth was really "broken," all vegetation taking on a very rank growth, with promise in the first week in June, when the summer drouth set in to last till corn was entirely ruined. Again on July 12th the drouth was really "broken," all vegetation taking on a very rank growth, with promise in the first week in June, when the summer drouth set in to last till corn was entirely ruined. Again on July 12th the drouth was really "broken," all vegetation taking on a very rank growth, with promise of a late crop of vegetables and hay and naterial benefit to cotton. It proved ater that the drouth was broken twain, the latter part lasting till Sep-tember 1st, which proved disastrous to all except the hay crop. Boll worms have damaged the cotton to a great extent. A great many gins in this county will not run at all this year on account of the short crop.

run at all this year on account of the short crop.

Two crop failures in succession are a sore trial, but we are not discouraged, and the farmers may be seen on every hand preparing for another crop. Grass is fine, and with the probability of yet 60 days before frost; we expect to cut another crop of sorghum and Johnson grass. Some Mexican June corn is beginning to tassel and will at least make fodder, if nothing more. There is plenty of feed in sight for stock cattle, and there are but few hogs in the country. The Armour and Swift packing plants at Fort Worth are nearing completion and will open for business next month.

H. F. GRINSTEAD.

H. F. GRINSTEAD. Torrant Co., Tex.

The Markets

WHEAT—By manife fol.—No. 2 read where the second of the follow west and for the follow west and follow west and for the follow west and follow the following of the following of the second field for the following of the following of the second field for the following of the following of the second field for the following of the following of the second field for the following of the following of the second field for the following of the following of the second field for the following of the following of the second field for the following of the following of the second field for the following of the following of the second field for the following of the following of the following of the second field for the following of the following

Control (1992). The control (1992) and the co

FARM TELEPHONES.

The day is not far distant when the rural districts of this country will be as completely covered with telephone systems as are the cities to-day. Progressive farmers, ranchmen and fruit grow-

Don't Rent Establish a

Home of Your Own

Read "THE CORN SELT," a handson monthly paper, beautifully illustrate containing exact and truthful inform ion about farm lands in the Wes Send 25 cents in postage stamps for year's subscription to THE CORN BELT, 200 Adams Street, Chicage

DO YOU RAISE HOGS? Then you live in fear that the Cholera will invade your herd, DR. HAAS' HOG REMEBY hog diseases that Dr. Haas is willing to consuce your bogs and pay you market pride it you feed his Hog Remedy. He ere are, and you have already sold those

ers are taking an active interest in telephones and they are eagerly seeking knowledge on the subject. The Julius Andrae & Sons Co. of Milwaukse, Wia., one of the largest manufacturers of telephones in the world, have just issued a book containing full and complete information on telephones. They advise us that a copy of this book will be sent free of any charge to those of our readers who are interested in the subject. The book can be secured by addressing the Julius Andrae & Sons Co., at their Milwaukse office, 316 West Water street. ers are taking an active interest in tele- ald" says:

TROUT FOR MISSOURI STREAMS.

The Scotch people have a different way of disposing of their potato crop from the Americans, though the Americans sell their apple crops sometimes in a somewhat similar way. The Glasgow "Her-

"The annual sale by au

COL

Pub eal bistreet year.
Adverthe b in the to CC eal B
Sub the i in the tup a list in the tup a and iffty new also twice a-we that kind of the tan

MANURE LOSES VALUE quickly from MANURE LOSES VALUE quickly from leaching. The New Jersey Experiment Station found that fresh manure on oats gave an increase of 275 per cent, whereas the same amount of manure which had been leached, then applied to the same kind of soil, which was planted with the same manner, gave an increase of only 58 per cent.



"A Business Education and the Place to Get it" JONES

FINE FARM AT AUCTION OCT. 4

A NEW DEPARTURE WHICH WILL PLEASE YOU

Mammoth Mail Order House

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1 lb. Best Ground Cirnamon (pure)
1 lb. Best Ground Cirnamon (pure)
1 lb. Bag Sest Table Sais
1 lb. Bag Sest Table Sais
1 lb. Bag Sest Table Sais
1 lb. Bag Green and Black Mixed Tea (chot lb. Pure Ground begarest (pure)
1 lb. Table Common (pure)
1 lb. Table Common (pure)
1 lb. Best Common (pure lb. Best Cocoanut (shredded)
li bars Best Laundry Soap
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